

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (cancelled)
2. (cancelled)
3. (cancelled)
4. (withdrawn) The heat exchanger of claim 3 wherein the partition wall includes a central tube extending upwardly along the length of the partition wall.
5. (withdrawn) The heat exchanger of claim 4 wherein the bottom portion is secured to the housing by a bolt inserted through a hole in a bottom portion opposite the housing and into the central tube in the partition wall.
6. (withdrawn) The heat exchanger of claim 5 wherein the central tube is positioned in alignment with a nut disposed in the cap in the dividing wall and the bolt is releasably engageable with the nut.
7. (withdrawn) The heat exchanger of claim 5 wherein the bottom portion includes a stiffener disposed within the bottom portion opposite the housing to enhance the rigidity of the bottom portion.
8. (cancelled)
9. (cancelled)
10. (cancelled)
11. (cancelled)
12. (cancelled)
13. (cancelled)
14. (cancelled)
15. (cancelled)
16. (cancelled)
17. (cancelled)
18. (cancelled)
19. (cancelled)

20. (cancelled)

21. (cancelled)

22. (currently amended) A heat exchanger comprising:

a plurality of unitary tubular aluminum heat exchange modules of a generally rectangular cross section, each module having at least one longitudinal through bore between opposite outer face portions which face portions are joined by opposite edge faces;

the outer face portions along substantially the full length of the module having formed therein slots that extend perpendicular to the through bore between said edge faces, said slots defining narrow heat exchange fins, said fins having a toothed shape, the endmost fin at each end of the module terminating adjacent a neck that surrounds and defines an end opening to said throughbore;

said plurality of modules arranged with the face portion of adjacent modules in juxtaposition;

~~a~~ an aluminum header plate for each end of said plurality of modules, each header plate having a plurality of openings sized to receive the necks of the modules and to interconnect and hold the same in an assembly, each header plate supported on an endmost fin and closing the space defined by the tooth shaped fins between the necks of adjacent modules, and each header plate having a peripheral edge generally coincident with the outer periphery of the assembly;

~~a sealing material~~ aluminum welds providing fluid tight seams between each header plate opening and the respective neck extending therethrough; and welds connecting each header plate to the assembly; and,

a tank having a continuous outer edge connected to the peripheral edge of each header plate along a fluid tight joint.

23. (original) The heat exchanger as set forth in claim 22 comprising:

a housing extending between the header plates and at least partially enclosing the assembly;

a first fluid inlet for directing a first fluid into the housing and the slots  
5 formed in the modules of the assembly;

an outlet for directing the first fluid from the housing and positioned with  
respect to said first fluid inlet to cause the first fluid to flow through the assembly in a  
direction along said slots and transverse thereto through the spaces defined by said  
tooth-shaped fins; and,

10 a second fluid inlet connection to one of said tanks for directing a second  
fluid through the longitudinal bores in said modules and into the other tank.

24. (original) The heat exchanger as set forth in claim 23 wherein said  
housing comprises a walled enclosure including a pair of side walls and a pair of end  
walls, said heat exchanger further comprising:

a pair of module assemblies within the housing;

5 a partition wall separating the assemblies, said partition wall extending  
between opposite side walls and connected along an edge between the side walls to one  
of the header plates;

an open passage between an opposite partition wall edge and the other  
header plate providing a connection for said first fluid between said assemblies; and,

10 said inlet and outlet for said first fluid positioned in housing walls on  
opposite sides of said partition wall and adjacent said one header plate.

25. (original) The heat exchanger as set forth in claim 24 comprising:

a separator plate dividing said one tank into an inlet chamber for said first  
fluid and an outlet chamber for said first fluid; and,

said first fluid inlet connection opening into said inlet chamber, and a first  
5 fluid outlet connection in said outlet chamber for directing the first fluid from the heat  
exchanger.

26. (currently amended) A heat exchanger comprising:

a plurality of unitary tubular aluminum heat exchange modules of a  
generally rectangular cross section, each module having at least one longitudinal  
through bore between opposite outer face portions which face portions are joined by  
5 opposite edge faces;

the outer face portions along substantially the full length of the module having formed therein slots that extend perpendicular to the through bore between said edge faces, said slots defining narrow heat exchange fins extending between unslotted opposite module ends, each of said ends terminating in a shoulder adjacent a neck that surrounds and defines an end opening to said throughbore;

said plurality of modules arranged with the face portions of adjacent modules in juxtaposition;

~~a~~ an aluminum header plate for each end of said plurality of modules, each header plate having a plurality of openings sized to receive the necks of the modules and to interconnect and hold the same in an assembly, each header plate supported on the shoulders and closing the space between the necks of adjacent modules, and each header plate having a peripheral edge generally coincident with the outer periphery of the assembly;

~~a sealing material~~ aluminum welds providing fluid tight seams between each header plate opening and the respective neck extending therethrough; ~~and welds~~ connecting each header plate to the assembly; and,

a tank having a continuous outer edge connected to the peripheral edge of each header plate along a fluid tight joint.

27. (withdrawn) The heat exchanger as set forth in claim 26 wherein said header plate comprises a generally flat main body portion containing said openings, and a peripheral outer rim enclosing the plate body portion to form a sealant containment chamber; and,

said sealing material comprising a pourable sealant filling said chamber and covering said body portion.

28. (withdrawn) The heat exchanger as set forth in claim 26 wherein said welds comprise spaced welds between the unslotted ends of the modules and a surface of the plate body opposite the containment chamber.

29. (withdrawn) The heat exchanger as set for in claim 27 wherein the outer edge of said bank extends into said containment chamber and the sealant to form said fluid tight joint.

30. (withdrawn) The heat exchanger as set forth in claim 29 comprising spaced tack welds along an interface between the rim of the containment chamber and the edge of the tank.

31. (original) The heat exchanger as set forth in claim 26 wherein the slots define air flow passages through the assembly and each of said tanks includes a fluid transfer connection.

32. (new) The heat exchanger as set forth in claim 22 wherein each of said tanks is aluminum and said fluid tight joint comprises an aluminum weld.